

Certificate of Analysis

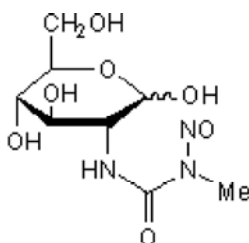
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Product Name: Streptozocin
CAS Number: 18883-66-4
IUPAC Name: 2-Deoxy-2-[[[(methylnitrosoamino)carbonyl]amino]-D-glucose

Catalog No.: 1621 **Batch No.:** 7
EC Number: 242-646-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₅N₃O₇
Batch Molecular Weight: 265.22
Physical Appearance: Off White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +71.7 (Concentration = 1, Solvent = Water)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	36.23	5.7	15.84
Found	36.41	5.72	15.76

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Antibiotic and antitumor agent. Alkylates DNA and induces diabetes mellitus via reduction of nicotinamide adenine dinucleotide in pancreatic β -cells in vivo.

Physical and Chemical Properties:

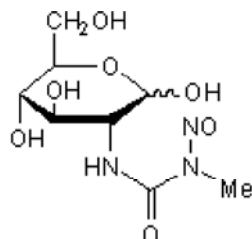
Batch Molecular Formula: C₈H₁₅N₃O₇

Batch Molecular Weight: 265.22

Physical Appearance: Off White solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

ANTINEOPLASTIC SUBSTANCE - TREAT AS EXTREMELY POISONOUS

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Weis (1982) Streptozotocin: A review of its pharmacology, efficacy and toxicity. *Cancer Treat. Rep.* **66** 427. PMID: 6277485.

Bennett and Pegg (1981) Alkylation of DNA in rat tissues following administration of streptozotocin. *Cancer Res.* **41** 2786. PMID: 6454479.

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